DOOM OF SOLID TIRES IS FORECASTED

AUTOMOTIVE SECTION

Will Be Obsolete in Three Years Declares Presidetn of Goodyear Company.

and P. W. Litchfield, factory manager, Railroads cannot be built because of at a banquet given the Detroit and violating Chinese traditions in cross-Cleveland sections of the Society of ing burial places with the right of Automotive Engineers in Akron re- way.

More than 200 of the foremost detrolley must g), stating that it has signers heard Mr. Seiberling's prophecy that within the lifetime of those reached a ponit where it cannot compresent the United States would be criss-crossed by great highways of solid foundation to withstand any ble, so the street car must give way wear and that highways of less than to the gas-driven vehicle that can life feet width would be unknown. He aid development of suburbs without asserted that the ultimate tire would heavy investment in franchises and Distribution Begins Monday. be cord-that there would be no fab- equipment. ric or solid tires.

China as the future big market for deathknell of the trolley, according tires was advocated by the speaker, to Mr. Litchfield. Streets cannot easily who declared that the numerous post be widened to give more track room roads of stone would be excellent continuous traffic movement is im-That solid tires for motor trucks foundations for modern highways perative. Therefore the whole street will be obsolete within three years, through that part of the Orient. He service must be utilized by a carrier motor buses and freight cars given cent of China's four million people discharge passengers — the trolley close competition by motor trucks on are employed in transportation must go underground as in London—

long hauls, were the predictions made against 10 per cent in the United if it remains in existence. by F. A. Seiberling, president of the States, and predicted a Celestial Goodyear Tire and Rubber Company, kingdom of motor transportation. The Goodyear factory manager pointed out the immobility of freight cars and delays necessitated in waiting to make up trains for given destinations. In contradistinction he indicated the mobility of the motor truck and predicted that with permanent highways and cord tire equipment, the motor truck will replace the freight car on long hauls. Mr. Litchfield asserted that the world war had put Europe fifty years ahead in transportation, and with this future for the industry in mind,

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Will Attend To Your Emergency TIRE TROUBLES

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CUT THIS OUT AND KEEP IN CAR

R EGARDLESS of what we may say about the Diamond T motor,

ing could do it justice. The real test of a motor is in

running it yourself-day after day, year after year. The

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actual performance of Diamond T trucks will surpass

Consider power. There is no guesswork in

the statement we are about to make. It is a

cold, hard fact, based on experiments of

our engineering department. The F. S.

motor has the highest maximum

curve power of any motor in a

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14-ton truck. In actual test it

showed 134 per cent more

power than any other

1-14-ton truck motor.

the advertising.

we feel that mere words are inexpressive. No advertis-

STARTERS GENERATORS

place the street car.

Our dear little repair shop is made up of 100 per cent leather necks and doughboys, and, believe me, they're some fixers. If you don't believe, ask the Germans. They know.

Mr. Litchfield declared that the

Increase in traffic has sounded the

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OF ALL KINDS Bring Us Your Frozen Radiator

We Treat Your Radiator

And Pocketbook Right. Will make a new radiator out of your old one at 1/2 the

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Honeycomb Radiators For Ford Cars

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1920 AUTO TAGS RECEIVED TODAY

Car Owners Warned No Extension Likely.

Automobile license tags for 1920 street cars will soon be replaced by quoted statistics to show that 50 per that can go to the curb to take on or for distribution beginning next Monwill be ready at the District building day. A partial shipment of 23,000 tags was received today, Wade H. Coombs, superintendent of licenses, announced. Distribution of motorcycle tags will begin at a later date.
Automobilists are urged to obtain old license expires. Heretofore, the license superintendent has extended, for one month continental tour made by one two-ton are clear. for one month past expiration date, the time for securing a new tag. This was done because of the failure to receive the tags from the manufacturer ance ability of their new three-and-in time for early distribution. With one-half-ton model. in time for early distribution. With one-half-ton model, the early shipment, Superintendent Coombs states there is little possiasked the visiting engineers to de- bility of the time being extended this will serve as a guide to any who may sign large capacity carriers to re-

The new tag has a white background with black numerals. It is the same size as used in previous years. Applicants for licenses must secure the engine number and maler's number of their machine before visiting the District building, says super-intendent. "Our clerical force is short," says Mr. Combs, "and we will not have time to go through our files to learn maker's and engine numbers

Applicants should come prepared with all information. It is also urged that names and addresses be written very plainly on applications. Trouble has been experienced last year in reading names and addresses."

During the past year more than 17,000 tags were distributed. The cost of licenses are: 24-horsepower and under, \$3; from 25 to 30 horsepower, \$5, and more than 30-horsepower, \$10.

NEW CONCERN ENTERS AUTO ACCESSORY FIELD

Interstate Motor Supply Company Will Be Among Largest in Washington.

The Interstate Motor Supply Company, 1324 New York avenue, is a new acquisition to Washington's fast increasing accessory field. As regards the amount of floor space, they can be easily ranked as the largest in Washington, and they also have the advantage of being very centrally lo-

The firm is composed of W. H. automobile business at North Adams, by comparing the following freezing mass.; and John W. Price, secretary, points: a former prominent attorney of Bristol. Va., now practicing in Washing-

in addition to a full line of accessories, the new firm has secured the agency for the Delion hand-

THE motor that generates this power literally fills the hood. It

\$2575

DELIVERED

are few and far between.

represents concentrated power and is a delight to every

lover of good gas engines. "Overhauls" for this motor

Its innovations and refinements are too numerous

to tabulate, but we mention some of its interesting

features: "Dri-Gas Manifold," that turns every

bit of gasoline vapor into explosive gas; the

water jacketing of each cylinder and valve

seat; vacuum system of fuel feed; spe-

cial lubrications of pistons and bearings; double oil strainer; special

severnor built with the motor,

that is locked at 1,400 r. p.

m. (18 miles per hour)

suspension.

and prevents abuse;

ball - and - socket

very complete battery for vulcaniz- squeaks develop. ing and retreading, sufficiently large to take care of this very important factor in the reduction from an autoist's standpaint, of the H. C. of L. Bringing, as they do, to Washington a high business reputation, coupled with expert experience and a strong financial standing, a brilliant future seems assured for the new

SHOW FILM OF TRUCK TRIP ACROSS COUNTRY

pany, Pennsylvania avenue and Thirteenth street, entertained about reach the moving parts. Consequently wear goes on rapidly. To obviate seventy-five of their friends Tuesday evening, December 9, with views on and one three-and-a-half-ton Autocar truck, leaving Washington June 16 of this year, to establish the endur-

The filming of this tour was a attempt a similar feat in the future. The possibilities in long distance trucks to sustain themselves en route both were clearly demonstrated in this series of pictures.

out in the pictures, and by the oral comments of Mr. Cumner, president on others it can be compensated for by of the Washington branch and host of the evening. Inasmuch as the use of pneumatic tires on trucks is comparatively in its intensy. It is just as important to use washers that fit properly as the orange of the control of the control of the control of the evening. paratively in its infancy, it will be of interest to note that the tire experience of this trip proved conclusively the advantages of pneumatics.

The trip from Washington to San

Francisco was made in twenty-nine and one-half days, which includes nine days consumed in side trips and detours, and only once on the entire trip was it necessary to have outside assistance for repairs. This is a re-markable record, and the Autocar Company is to be congratulated on both the success of the project from an endurance standpoint and the preservation in pictures of their trucks' performance



Motorists who use their cars all winter should be careful to see that Trolinger, president, formerly in the charged. A battery which is allowed hardware and banking business at to deteriorate or become even par-Pulaski, Va.; S. W. Baldwin, vice tially discharged is far more likely to president and general manager, who freeze than one which is kept in good

70° below zero 60° below zero 20° below zero

Do not try to clean the headlight reflectors with an ordinary cloth, because you are apt to scratch the highly sensitive surface and do more harm than good. The best way to polish them is to first sponge them off lightly with a soft wet cloth so as to remove all loose dirt. When dry, take a piece of dampened chamois and dip it in jeweler's rouge, and then polish the reflector with a spiral or circular motion, starting at the center. You will be surprised what a difference clean reflectors will make n the light reflected upon the road.

Spring shackels and spring bolts are quite prone to wear, as they ar



The O-L-O Manifold Heater Back Do Less Cranking Price \$2

Money refunded if not satisfactory. Hartley-Farrell, Bourse, Phila. Arents Wanted Phone Lemberd 1575 Washington Office,

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sale by the following dealers: JOHN B. ESPEY, 1006 Pa. Ave. N. W. CAPITOL CITY GARAGE.
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ENTERPRISE SUPPLY CO., 1210 New York Ave. CAPITOL GASOLINE STATION, 1st & Md. Ave. S. W. UPTOWN AUTO SUPPLY CO., 18th and California Ave. N. W. BOYD TIRE & SUPPLY CO., 650 Pa. Ave. S. E.

IRVING COURT GARAGE, 1412 Irving St. N. W. MULCARES TIRE SHOP, 1222 14th St. N. W. BAILEY'S AUTO SUPPLY CO., 3001 14th St. N. W. MID CITY AUTO SUPPLY HOUSE, 706 M St. N. W.

WISCONSIN AUTO SUPPLY CO., 1205 Wisconsin Ave. N. W. FEDERAL GARAGE, 1050 30th St. N. W.

made tire, mainufacturer at Trenton,
N. J.

They have also established a U. S.
L. battery service, and have equipped a modern electrical shop with experts in charge. They have also installed a very complete battery for values in

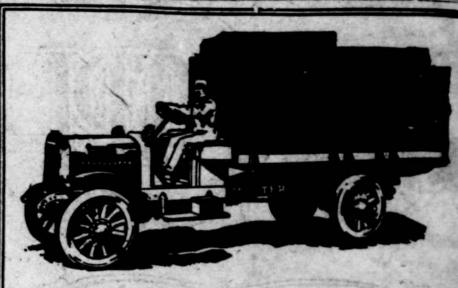
This wear can be deferred considerably if proper and frequent attention is given to lubrication of these parts. Grease and oil cups are put on spring bolts for a purpose but many drivers seem to forget they are there or at least neglect them until they begin to squeak.

Although wear of the spring botts generally results from neglect on the part of the driver to supply sufficient lubrication, nevertheless it is sometimes due to the fact that the holes are clogged from some cause at the factory so that even with the most frequent attention, no lubricant can trouble from this cause, it is well after receiving a new car to run a wire through the oil or grease holes in

The best way, of course, to prevent squeaks and rattles is to keep the parts well lubricated so that they However, it is impossible to prevent unique undertaking and the pictures the spring bolts and shackles wearing eventually because of their exposure to road dirt, and when they become too loose the only thing to do hauling by truck and the ability of is to replace bushings or bolts or

Rattles are frequently caused by An interesting feature was the comparative merits of pneumatic and play of the spring. On some types solid tires in truck service brought of construction the nuts may be set

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JOHNSON'S FREEZE-PROOF

TOHNSON'S FREEZE-PROOF is essential to winter driving. The present high price of alcohol—its low boiling point—quick evaporation and inflammability make it impractical. Use Johnson's Freeze-proof, then forget there is such a thing as a frozen radiator. Leave your radiator uncovered on the coldest day—leave your car at night in an unheated garage—IT CAN'T FREEZE. Radiator trouble and worry is a thing of the past.

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Truck and fleet owners will find Johnson's Freeze-Proof a great time and money saver. Your trucks will always be on the job and in the coldest weather it will be "Business as Usual" for you. One application lasts all winter, unless the solution is lost through the overflow pipes or leakage. Price per package. \$1.50



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Cold hands have always been the bugbear of winter motorists, but with Steer Warms you can put on light gloves or mittens and drive for hours in perfect comfort.

Steer Warms operate on the same principle as an electric heating pad. They are simple, neat and efficient.

Price for Ford Cars, \$5. Price for Other Makes, \$7.50.

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Make your autoist friend a gift of "Pyrene"-the fire extinguisher that saves 15% on auto insurance. He should have one for his garage as well as his machine.

BRASS-\$10

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The Boyce Moto-Meter is the only Ford accessory that pays back in dividends one hundred times its original cost.

Once you install this Boyce Moto-Meter and enjoy its benefits, you will never again drive a Ford, or any other car, without one. It will signal you that more water is needed in the radiator ten to fifteen minutes before the radiator starts steaming.

Special Model for Ford Cars, \$2.75

It will indicate the need of more lubrication long before the motor actually is in danger. Put a Boyce Moto-Meter on your car today. It deserves one. Priced. \$2.75 to \$10

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